

GenCore version 5.1.8  
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OM protein - protein search, using sw model

Run on: May 18, 2006, 07:32:33 ; Search time 0.001 Seconds

(without alignments)  
964.906 Million cell updates/sec

Title: US-10-689-461-2

Perfect score: 2081  
Sequence: 1 MEYPMEGGMSGRPRTTSF.....QELSNPPLATILIPPHARI 394

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 6 seqs, 2449 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 6 summaries

Database: US10689461\_mod.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2024	97.3	420	1	US-10-689-461-1
2	1883.5	90.5	361	1	US-10-689-461-3
3	1609	77.3	447	1	US-10-689-461-5
4	1609	77.3	483	1	US-10-689-461-4
5	1588	76.3	351	1	US-10-689-461-7
6	1588	76.3	387	1	US-10-689-461-6

## ALIGNMENTS

RESULT 1  
US-10-689-461-1  
; Sequence 1, Application US/10689461  
; GENERAL INFORMATION:  
; APPLICANT: Harrison, Stephen D.  
; APPLICANT: Hall, John A.  
; APPLICANT: Calderon-Caccia, Maria  
; APPLICANT: Zhong, Ziyang  
; APPLICANT: Fang, Eric Y.  
; APPLICANT: Colt, Doris G.  
; APPLICANT: Nguyen, Steve H.  
; APPLICANT: Medina-Selby, Angelica  
; TITLE OF INVENTION: GSK3 POLYPEPTIDES  
; FILE REFERENCE: 59516-162/PP-15876.002/200130.524  
; CURRENT APPLICATION NUMBER: US/10/689,461  
; CURRENT FILING DATE: 2003-10-20  
; PRIOR APPLICATION NUMBER: US/10/211,412  
; PRIOR FILING DATE: 2002-07-31  
; PRIOR APPLICATION NUMBER: US09/916,109  
; PRIOR FILING DATE: 2001-07-25  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1  
; LENGTH: 420  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-689-461-1

Query Match 97.3%; Score 2024; DB 1; Length 420;

Best Local Similarity 100.0%; Pred. No. 0; Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	11	MSGRPRTTSFAESCKPVQPSAFSGMKVSRDKGSKYTTVATPGQPRQEVSYTDTK	70
Db	1	MSGRPRTTSFAESCKPVQPSAFSGMKVSRDKGSKYTTVATPGQPRQEVSYTDTK	60
Qy	71	VINGSGFGVYQAALCDSGELVAIKVLQDKRFNRELQIRKLDHCNIVRLRFFPSG	130
Db	61	VINGSGFGVYQAALCDSGELVAIKVLQDKRFNRELQIRKLDHCNIVRLRFFPSG	120
Qy	131	EKDEYVNLNVLDPVPTVYRVARHYSRAKOTLPVIVKLYMQLPFSLAYIHSFGICHR	190
Db	121	EKDEYVNLNVLDPVPTVYRVARHYSRAKOTLPVIVKLYMQLPFSLAYIHSFGICHR	180
Qy	191	DIKQNLILDPDPAVLKLCDFGSAKQLVRSPPVSYICSRYYRAPELIFGATDYTSIDV	250
Db	181	DIKQNLILDPDPAVLKLCDFGSAKQLVRSPPVSYICSRYYRAPELIFGATDYTSIDV	240
Qy	251	WSAGCVLAELLGQPIFGDSGVQDLVEIIVKLGTPFREQIRENNPYTEKFPQIRAH	310
Db	241	WSAGCVLAELLGQPIFGDSGVQDLVEIIVKLGTPFREQIRENNPYTEKFPQIRAH	300
Qy	311	WTKYFRRTPEALCSRLLEYTPTRLPLECAHSFDELDPPVKKHNGDTPALF	370
Db	301	WTKYFRRTPEALCSRLLEYTPTRLPLECAHSFDELDPPVKKHNGDTPALF	360
Qy	371	NTTQELSNPPLATILIPPHARI 394	
Db	361	NTTQELSNPPLATILIPPHARI 384	

RESULT 2  
US-10-689-461-3  
; Sequence 3, Application US/10689461  
; GENERAL INFORMATION:  
; APPLICANT: Harrison, Stephen D.  
; APPLICANT: Hall, John A.  
; APPLICANT: Calderon-Caccia, Maria  
; APPLICANT: Zhong, Ziyang  
; APPLICANT: Fang, Eric Y.  
; APPLICANT: Colt, Doris G.  
; APPLICANT: Nguyen, Steve H.  
; APPLICANT: Medina-Selby, Angelica  
; TITLE OF INVENTION: GSK3 POLYPEPTIDES  
; FILE REFERENCE: 59516-162/PP-15876.002/200130.524  
; CURRENT APPLICATION NUMBER: US/10/689,461  
; CURRENT FILING DATE: 2003-10-20  
; PRIOR APPLICATION NUMBER: US/10/211,412  
; PRIOR FILING DATE: 2002-07-31  
; PRIOR APPLICATION NUMBER: US09/916,109  
; PRIOR FILING DATE: 2001-07-25  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; TYPE: PRT  
; LENGTH: 361  
; ORGANISM: Homo sapiens  
US-10-689-461-3

Query Match 90.5%; Score 1883.5; DB 1; Length 361;  
Best Local Similarity 91.6%; Pred. No. 0;  
Matches 361; Conservative 0; Mismatches 0; Indels 33; Gaps 1;  
1 MEYPMEGGMSGRPRTTSFAESCKPVQPSAFSGMKVSRDKGSKYTTVATPGQPRQ 60  
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Db          420 PPLENFSAAGELISGPSLNALILIPHLR 446

RESULT 5
US-10-689-461-7
; Sequence 7, Application US/10689461
; GENERAL INFORMATION:
; APPLICANT: Harrison, Stephen D.
; APPLICANT: Hall, John A.
; APPLICANT: Calderon-Cacela, Maria
; APPLICANT: Zhong, Ziyang
; APPLICANT: Fang, Eric Y.
; APPLICANT: Coit, Doris G.
; APPLICANT: Nguyen, Steve H.
; APPLICANT: Medina-Selby, Angelica
; TITLE OF INVENTION: GSK3 POLYPEPTIDES
; FILE REFERENCE: 59516-162/P-15876.002/200130.524
; CURRENT APPLICATION NUMBER: US/10/689,461
; CURRENT FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: US/10/211,412
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US09/916,109
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-461-7

Query Match      76.3%; Score 1588; DB 1; Length 351;
Best Local Similarity 86.2%; Pred. No. 0;
Matches 300; Conservative 22; Mismatches 26; Indels 0; Gaps 0;

QY 46 KVTVAATPRGGPDRPOEVSSTDPDTKVIKNGSFQVYQAKLQDSGLVAIKKYLQDKRKN 105
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 3 KVTVAATLGGQPERSQEVAATDIDKNGSFGVYQARLAEITRELVAIKKYLQDKRKN 62

QY 106 RELQIMRLKIDCNITRLRFLFFYSGSEKDEYVNLVLVDYDETYYRVARHYSRAKQTLPIV 165
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 63 RELQIMRLKIDCNITRLALVFPYSSEKDELYNLVLEVPETYYRVARHFPKALTLPI 122

QY 166 IYKLYMTQLFRSLAYIHSFGICHRDIPQNLILDPTAVLKLCPFGSAKQIVRGEPNVS 225
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 123 LYVKYMTQLFRSLAYIHSOGVCHRDIPQNLILDPTAVLKLCPFGSAKQIVRGEPNVS 182

QY 226 YICGRYVAPBLIFCATDTYSSIDVWSAGCYLAELLGQPIFRGSGVDQLVEIIKVLGT 285
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 183 YICGRYVAPBLIFCATDTYSSIDVWSAGCYLAELLGQPIFRGSGVDQLVEIIKVLGT 242

QY 286 PTRQDIRMANNYTEFFKFPQIKAHPMTKVPRPRTPEAIALCSRLLEYTPARLTPLBAC 345
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 243 PTRQDIRMANNYTEFFKFPQIKAHPMTKVFSKRTPEAIALCSRLLEYTPARLTPLBAC 302

QY 346 AHSEFDELRLDPNVKHPNGRDTPALENFTTQELSSNPPLATILIPPHAR 393
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 303 AHSEFDELRLCIGTQLPNNRPLPLENFSAAGELISGPSLNALILIPHLR 350

RESULT 6
US-10-689-461-6
; Sequence 6, Application US/10689461
; GENERAL INFORMATION:
; APPLICANT: Harrison, Stephen D.
; APPLICANT: Hall, John A.
; APPLICANT: Calderon-Cacela, Maria
; APPLICANT: Zhong, Ziyang
; APPLICANT: Fang, Eric Y.
; APPLICANT: Coit, Doris G.
; APPLICANT: Nguyen, Steve H.
; APPLICANT: Medina-Selby, Angelica
; TITLE OF INVENTION: GSK3 POLYPEPTIDES

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; FILE REFERENCE: 59516-162/PP-15876_002/200130.524
; CURRENT APPLICATION NUMBER: US/10/689,461
; CURRENT FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: US/10/211,412
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: US09/916,109
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 6
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-461-6

Query Match          76.3%; Score 1588; DB 1; Length 387;
Best Local Similarity 86.2%; Pred. No. 0;
Matches 300; Conservative 22; Mismatches 26; Indels 0; Gaps 0

QY 46 KTTTAVATPGGGPDPRPQVSTYTDTRKVIYNGSFQVYVYQAKLCDSGELVAIKKYLQDKRFKN 105
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 3 KTTTAVATLGGGPPERSQEVAYTIDIKVINGSGFQVYVYQARLAEITRELVAIKKYLQDKRFKN 62
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 106 RELQIMRLDHONTVRLRYFFYSSGKEDVYLNVLVDYVETVYRVARHYSRAKQTLPV 165
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 63 RELQIMRLDHONTVRLRYFFYSSGKEDVYLNVLVDYVETVYRVARHFTKAKLTPI 122
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 166 IYVLTWYQLFRSLAYIHSFGICHRDIKPNMLLDPTAVLKLCDFGSAKQLVRGEPNVS 225
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 123 LYVAVWYQLFRSLAYIHSQGVCHRDIKPNLLVDPDPAVLKLCDFGSAKQLVRGEPNVS 182
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 226 YICRRYRAPPELLFGADTYTSSIDVWSAGCVLAELLGQPIFGDSGVQDLVEIIKVLGT 285
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 183 YICRRYRAPPELLFGADTYTSSIDVWSAGCVLAELLGQPIFGDSGVQDLVEIIKVLGT 242
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 286 PTRQDIRRMNNNTYEFKRPQIKAHPMWTVFRPRTPPEALICSLREYTPPARLTPLEAC 345
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 243 PTRQDIRRMNNNTYEFKRPQIKAHPMWTVFKSRTPPEALICSSLEETPSSRLSPLEAC 302
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 346 AHSFFDELADBNVKGHPNGRDTPALFNFTTQELSSNPPLATILIPPHAR 393
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 303 AHSFFDELRCUGTQLPNNRPLPLFNPSAGBLSTQPSLNALLIPPHLR 350
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

Search completed: May 18, 2006, 07:32:37
Job time : 0.001 secs

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